

Title (en)

Planetary gearbox with integral service brake

Title (de)

Planetengetriebe mit integrierter Betriebsbremse

Title (fr)

Engrenage planétaire solidaire d'un frein de service intégral

Publication

**EP 2910395 B1 20190213 (EN)**

Application

**EP 14195417 A 20141128**

Priority

US 201414184472 A 20140219

Abstract (en)

[origin: EP2910395A2] A planetary gearbox with substantial speed reduction includes a stationary spindle, an integral service brake, and a parking brake. The integral service brake resides radially outwardly with respect to the parking brake in a stacked arrangement such that axial space is conserved yielding an axially short and compact gearbox. An oil passageway extends radially through the spindle. A rotating input shaft drives the planetary gearbox and produces an output in the form of a rotatable housing. The service brake rotors have a large surface area and are keyed to the rotatable hub enabling efficient brake cooling and efficacious brake performance in a compact arrangement.

IPC 8 full level

**B60K 17/04** (2006.01); **B60K 17/14** (2006.01)

CPC (source: EP US)

**B60K 17/046** (2013.01 - EP US); **B60T 1/062** (2013.01 - EP US); **F16D 55/40** (2013.01 - EP US); **F16H 57/10** (2013.01 - US); **B60K 7/0015** (2013.01 - EP US)

Cited by

EP4212375A1; CN105090450A; WO2023031194A1; WO2016139600A1

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